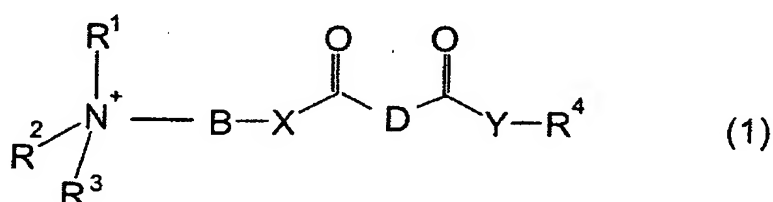


## Abstract

Corrosion and gas hydrate inhibitors having improved water solubility and increased biodegradability

The invention thus provides the use of compounds of the formula (1)



where

$\text{R}^1$ ,  $\text{R}^2$  are each independently  $\text{C}_1$ - to  $\text{C}_{22}$ -alkyl,  $\text{C}_2$ - to  $\text{C}_{22}$ -alkenyl,  $\text{C}_6$ - to  $\text{C}_{30}$ -aryl or  $\text{C}_7$ - to  $\text{C}_{30}$ -alkylaryl,

$\text{R}^3$  is  $\text{C}_1$ - to  $\text{C}_{22}$ -alkyl,  $\text{C}_2$ - to  $\text{C}_{22}$ -alkenyl,  $\text{C}_6$ - to  $\text{C}_{30}$ -aryl or  $\text{C}_7$ - to  $\text{C}_{30}$ -alkylaryl,  $-\text{CHR}^5-\text{COO}^-$  or  $-\text{O}^-$ ,

$\text{R}^4$  is M, hydrogen or an organic radical which optionally contains heteroatoms and has from 1 to 100 carbon atoms,

B is an optionally substituted  $\text{C}_1$ - to  $\text{C}_{10}$ -alkylene group,

D is an ethylene group substituted by an organic radical having from 1 to 600 carbon atoms,

X, Y are each independently O or  $\text{NR}^6$ ,

$\text{R}^5$ ,  $\text{R}^6$  are each independently hydrogen,  $\text{C}_1$ - to  $\text{C}_{22}$ -alkyl,  $\text{C}_2$ - to  $\text{C}_{22}$ -alkenyl,  $\text{C}_6$ - to  $\text{C}_{30}$ -aryl or  $\text{C}_7$ - to  $\text{C}_{30}$ -alkylaryl, and

M is a cation

as corrosion and gas hydrate inhibitors, and also the compounds of formula 1.